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IRONHORSE...Leading America's Army in the 21st Century!



Digitization...

...A Warfighter's Perspective

***National Defense Industrial Association
Symposium***

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AGENDA

- ***Digitized Division***
 - ❖ *What Makes Us Different...*
 - ❖ *Digitization Provides...*
- ***Division Capstone Exercise (DCX)***
 - ❖ *Fire Support Observations*
- ***Digitized Axioms***
 - ❖ *A Warfighter's View*
- ***Challenges Ahead***

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What Makes us Different...

...Technology...

... Optimizing new systems to increase lethality

MCS



ASAS



FBCB2



AFATDS



CSS/CS



What Makes Us Different.....Dominant Maneuver

Other Heavy Divisions

Digitized Division

M1A1



- ⇐ Limited night capability
- ⇐ Non-digital
- ⇐ Single thermal sight 2nd generation FLIR ⇐
- FBCB2 Digital C2 ⇐
- Cdr's Independent Thermal Viewer ⇐
- Under-armor aux power unit ⇐

M2A2



- ⇐ Limited night capability
- ⇐ Non-digital
- ⇐ No rangefinder
- Improved FLIR ⇐
- FBCB2 Digital C2 ⇐
- Laser Rangefinder ⇐

AH-64A Apache



- ⇐ Laser guided missiles
- ⇐ Night capable
- ⇐ Non-digital
- Radar guided, fire-and-forget missiles ⇐
- Night and adverse weather capable ⇐
- Fully digitized ⇐

M1A2 SEP



M2A3



AH-64D Longbow



Linebacker



Bradley Stinger Fighting Vehicle



- ⇐ 25mm gun
- ⇐ Stinger team dismounts to engage
- ⇐ Non-digital
- Fires from integrated launcher ⇐
- FAADC2 system ⇐
- Slew-to-Cue capability ⇐

What Makes Us Different.....Precision Engagement

Other Heavy Divisions



- ⇐ ATACMS capable (165 km)
- ⇐ 32 km range (non-ATACMS)
- ⇐ 93 seconds to fire
- ⇐ 216 seconds to reload

ATACMS Block II capable (300 km) ⇐
45 km range (ER) ⇐
16 seconds to fire ⇐
160 seconds to reload ⇐



- ⇐ 30 km range
- ⇐ Firing crew of 6
- ⇐ AFCS

30 km range ⇐
Firing crew of 6 ⇐
EDS/FBCB2 ⇐



- ⇐ M113 Chassis
- ⇐ GVLLD
- ⇐ HTU

M113 Chassis ⇐
GVLLD ⇐
FOS LCU/FBCB2 ⇐



Digitized Division



Digitization Provides...

- ***Situational Awareness:***
 - ***Knowing where we are***
 - ***Knowing where the enemy is***
 - ***Knowing where we are at risk; where the enemy is vulnerable***
- ***Situational Understanding:***
 - ***Assessing what the enemy will do***
 - ***Collaborating to synchronize***
- ***Battlespace Dominance:***
 - ***Defeating the enemy at a time and place of our choosing***



The Synergy of.....

Fundamentals

+

Situational Awareness

+

Situational Understanding

=

***Situational
Dominance***



Division Capstone Exercise

“The Division Capstone Exercise clearly demonstrated what well-trained and competent leaders can do when they leverage information and use it as an element of combat power.”

***--- BG J.D. Thurman,
NTC Commanding General,
on DCX I***

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Division Capstone Exercise

- ***Demonstration of Warfighting Capability***
 - ***Exercise - not a test or a certification***
- ***Phase I***
 - ***NTC Rotation 01-06***
 - ***11 Mar-21 Apr 2001***
- ***Phase II***
 - ***BCTP WFX 02-01***
 - ***Fort Hood Battle Simulation Center***
 - ***Field CPs***
 - ***15-19 Oct 01***



Kartuna



DCX I Fire Support Observations

❖ What We've Accomplished:

- ✓ Streamlined Division-level Counterfire Fight***
- ✓ Power of the Fire Support Client***
- ✓ Improved Situational Awareness***

❖ What We Need to Fix:

- Dated Fire-Support Platforms***
- Target Location Error***
- Communications Architecture***



Digitized Axioms

- ❖ **Digitization Is for Everyone**
 - Most Soldiers Use Digital Device(s)
- ❖ **Training Fundamentals Remain Important**
 - Gate Strategy; Individual, Crew, Collective
- ❖ **Coup D'oeil Still Applies**
 - Digital Devices Do Not Make Decisions
- ❖ **Be Flexible**
 - Hardware and Software Changes Often
- ❖ **Back-Up Methods/Interoperability are Important**




Digitized Axioms

- ❖ **Leveraging Technology is Continuous**
 - TTPs and SOPs must be adaptive
- ❖ **Synthesize Combat Skills and Technology**
 - Need Warriors; Not Geeks
- ❖ **Leaders are a “Jack of All Trades, Master of None”**
- ❖ **Not a New Way of Warfighting - A Better Way**



Challenges As We Continue . . .

- 
- **Incorporate DCX lessons learned**
 - **TOE/MTOE**
 - **Unit Training**
 - **Institutional Training**
 - **Continue to Refine Techniques, Tactics and Procedures**
 - **Synthesize combat skills with technology**